

WHAT IS CLAIMED IS:

1. A master cylinder with a braking stroke simulator operated in response to operation of a manually operated braking member, comprising:

a master piston slidably accommodated in a housing having an atmospheric pressure chamber defined therein for storing brake fluid under atmospheric pressure, and a master pressure chamber defined in front of said master piston for generating a hydraulic braking pressure;

a simulator piston slidably accommodated in said housing to define a simulator chamber in front of said simulator piston, and moved back and forth in response to operation of said manually operated braking member;

an elastic member for applying a stroke of said simulator piston in response to braking operation force applied to said manually operated braking member, to provide said braking stroke simulator together with said simulator piston, said braking stroke simulator transmitting the braking operation force of said manually operated braking member to said master piston through said simulator piston and said elastic member;

a cut-off seal member disposed in said housing for supporting said master piston therein slidably and fluid-tightly, and placed to be applied with the pressure in said master pressure chamber in front of said cut-off seal member, and applied with the pressure in said atmospheric pressure chamber behind said cut-off seal member; and

a passage formed in said master piston to communicate said simulator chamber with said atmospheric pressure chamber when said master piston is placed in an initial position thereof, said cut-off seal member being positioned relative to said passage to block the communication between said simulator chamber and said atmospheric pressure chamber, when said master piston is advanced by a predetermined stroke from said initial position or more.

2. A master cylinder with a braking stroke simulator as set forth in claim 1, wherein said simulator piston is slidably received in said master piston to be moved relative thereto.

3. A master cylinder with a braking stroke simulator as set forth in claim 1, wherein said cut-off seal member is placed to define an annular chamber around said master piston in front of said cut-off seal member, said annular chamber being communicated with said master pressure chamber.

4. A master cylinder with a braking stroke simulator operated in response to operation of a manually operated braking member, comprising:

a master piston slidably accommodated in a housing having an atmospheric pressure chamber defined therein for storing brake fluid under atmospheric pressure, and a master pressure chamber defined in front of said master piston for generating a hydraulic braking pressure;

a simulator piston slidably accommodated in said

housing to define a simulator chamber in front of said simulator piston, and moved back and forth in response to operation of said manually operated braking member;

an elastic member for applying a stroke of said simulator piston in response to braking operation force applied to said manually operated braking member, to provide said braking stroke simulator together with said simulator piston, said braking stroke simulator transmitting the braking operation force of said manually operated braking member to said master piston through said simulator piston and said elastic member;

a cut-off seal member disposed in said housing for supporting said master piston therein slidably and fluid-tightly, and placed to be applied with the pressure in said master pressure chamber in front of said cut-off seal member, and applied with the pressure in said atmospheric pressure chamber behind said cut-off seal member;

a first passage formed in said master piston to communicate said master pressure chamber with said atmospheric pressure chamber when said master piston is placed in an initial position thereof, said cut-off seal member being positioned relative to said first passage to block the communication between said master pressure chamber and said atmospheric pressure chamber, when said master piston is advanced by a first stroke from said initial position or more, and

a second passage formed in said master piston to

communicate said simulator chamber with said atmospheric pressure chamber when said master piston is placed in the initial position thereof, said cut-off seal member being positioned relative to said second passage to block the communication between said simulator chamber and said atmospheric pressure chamber, when said master piston is advanced by a second stroke from said initial position or more, said second stroke being greater than said first stroke.

5. A master cylinder with a braking stroke simulator as set forth in claim 4, wherein said simulator piston is slidably received in said master piston to be moved relative thereto.